

CLAIMS:

1. A blade-like connecting needle for measuring a semiconductor wafer, comprising

a blade signal line for transmitting signal from the semiconductor wafer,

a support insulator covering at least a portion of said blade signal line,

a plurality of blade guard patterns disposed in or on said support insulator for electromagnetically shielding said blade signal line, and

a probe supported by said support insulator and connected to said blade signal line.

2. A blade-like connecting needle according to claim 1, wherein at least a portion of said probe is covered with an insulating material.

3. A blade-like connecting needle according to claim 1, further comprising a connector for connecting said blade signal line to an external circuit.

4. A blade-like connecting needle according to claim 3, wherein said connector includes in at least a portion

thereof a signal line covered with an insulating material.

5. A blade-like connecting needle according to claim 1, wherein said blade signal line has an outer circumference covered with said support insulator.

6. A blade-like connecting needle according to claim 1, wherein the blade-line connecting needle is connected to a probe card including a shielded electric conductive path.

7. A method for manufacturing a blade-like connecting needle comprising:

providing at least two members each having a symmetrical shape with respect to the other;

forming a groove in said members; and

bonding said members each other with a blade signal line housed in said groove to provide a blade-like connecting needle.

8. A method for manufacturing a coaxial blade-like connecting needle comprising:

providing a multilayer-plate insulator with an internal wire placed in said multilayer-plate insulator;

machining said multilayer-plate insulators having said internal wire inside to obtain a desired shape; and

forming a guard pattern plated with metal on a surface of said multilayer-plate insulator to provide a blade-like connecting needle.

9. A method for manufacturing a hollow blade-like connecting needle comprising:

providing an insulator material base plated with metal;

machining said base to form a groove;

plating the bottom of said groove with metal; and

attaching a metal lid to said base to close said groove plated with metal.

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